TOWN OF

10/in/s (cos)

NEWMARKET, NEW HAMPSHIRE

FOR CONSTRUCTION

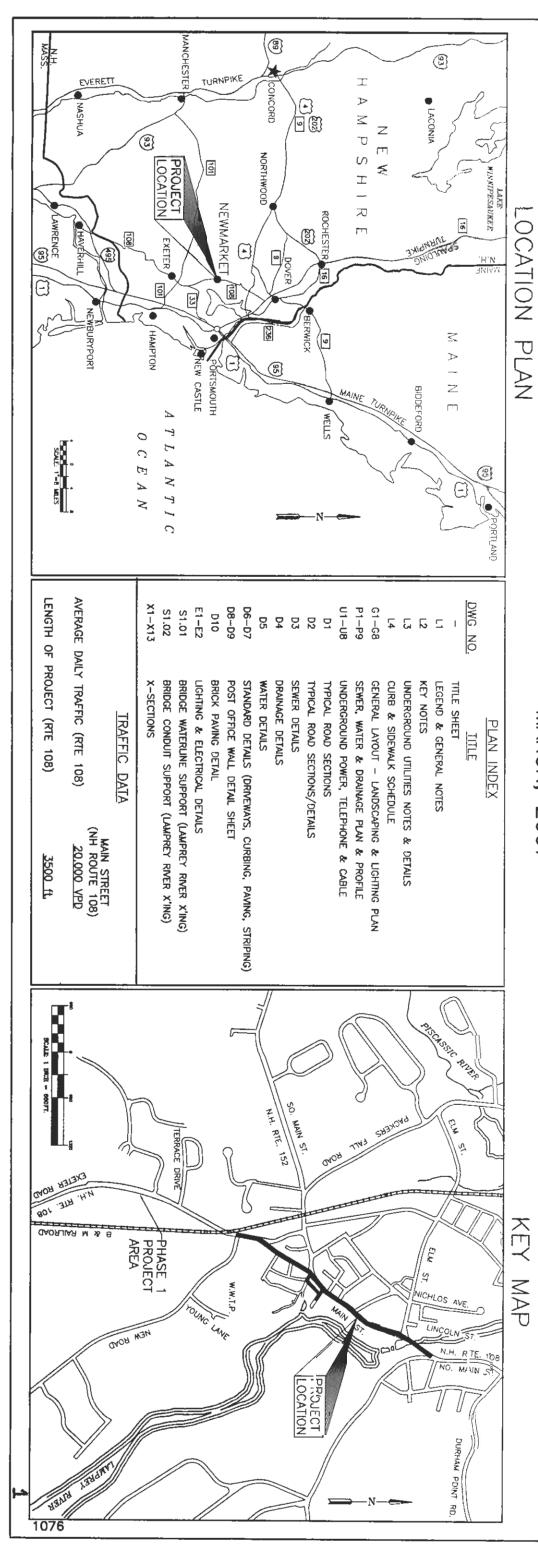
MAIN STREET RECONSTRUCTIO PHASE 2

NHDOT PROJECT 13499 STP-TE-X-000S(416)

PREPARED BY

UNDERWOOD ENGINEERS, INC.

MARCH, 2007



PHREW HARMING OF NEW HARMING OF NEW

EXIST GENERAL **PROPOSED** LEGEND:

OSL(X) EXIST SSL(W) EXIST 4"SSL(W) 4"DL(Y) 4"DSL(Y) STRUCTURES/BUILDINGS

EDGE OF VEGETATION/ DOUBLE SINGLE LINE (YELLOW) PAVED ROAD/DRIVE VERTICAL GRANITE CURB DECIDUOUS TREE APPROXIMATE PROPERTY LINE DOUBLE LINE (YELLOW) SOLID SINGLE LINE (WHITE)

€ STREAM/BROOK PULL BOX

4 8

FENCE IRON PIN FOUND STONE WALL PHONE BOOTH STONE POST RETAINING WALL FLAG POLE

THRUST RESTRAINT TAX MAP AND LOT NUMBER

4-2-

○ | ■ x ▼ ' WATER VALVE DRAIN MANHOLE REDUCER SEWERLINE SEWER MANHOLE DRAINLINE WATERLINE HYDRANT WATER SHUT-OFF REDUCER

2 日本学

GENERAL NOTES

1. ROAD RECONSTRUCTION, NHOOT UNIT ITEMS SHALL BE IN ACCORDANCE WITH NHOOT STANDARD SPECIFICATIONS LATEST REVISION, NHOOT CURRENT STANDARD PLANS AND SUPPLEMENTAL SPECIFICATIONS, INCLUDED IN THE PROJECT MANUAL.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR (IF DAMACED) OF ALL EXIST UTILITIES AND SERVICES. THE APPROXIMATE LOCATIONS OF UTILITIES AND SERVICES AND WITH SHOWN ON THE DRAWNOS. NOT ALL UTILITIES ARE SHOWN, NOTIFY DIG-SAFE PRIOR TO COMMENCING CONSTRUCTION, (1-888-344-7244).

3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND HOMES AT ALL TIMES.

4. CONTRACTOR WILL BE REQUIRED TO PREPARE AND SUBMIT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO THE OWNER AND SUBMIT A NOTICE OF INTENT (NOI) IN ACCORDANCE WITH EPA NPDES GUIDELINES. SAMPLE DOCUMENTS ARE LOCATED IN THE APPENDIX OF THE PROJECT MANUAL.

S. THIS SET OF PLANS HAS BEEN CREATED TO BE USED IN CONUNCTION WITH A TECHNICAL SPECIFICATION ENTITLED "PROJECT MANUAL, NEWARKET, NEW HAMPSHIPE, MAIN STREET RECONSTRUCTION, PHASE 2-NHOOT PROJECT 13499, STP-TE-X-000S(416)".

S. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL SURPLUS EARTH OR LEDGE EXCANATED DURING CONSTRUCTION, UNLESS OTHERWISE INDICATED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPERTY
RESTORATION BOTH PUBLIC AND PRIVATE. UTILITIES DAMAGED AS A RESULT
OF THE CONTRACTOR'S OPERATIONS SHALL BE REPARED BY THE
CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

8. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL TRENCH PAVEMENT UNTIL THE FINAL PAVEMENT IS PLACED AND ACCEPTED BY THE OWNER. TRENCH SETTLEMENT SHALL BE REPLACED AT CONTRACTORS OWN COST.

6. TEMPORARY BY-PASS PUMPING, REQUIRED FOR INSTALLATION, TESTING AND/OR INSPECTION OF NEW SENER, AND FOR CONSTRUCTION OF MASCHRY INVERTS, IS SUBSIDIARY TO SEMER CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE CONSIDERED.

4. SMH RIMS SHALL BE SET 0-1/4" BELOW GRADE WHEN IN PAVEMENT OR GRAVEL ROADS (I.E., PLOWED AREAS). RIMS SHALL BE SET AT GRADE IN NON-PLOWED AREAS UNLESS INDICATED OTHERWISE.

3. THE SEWER MAIN ON MAIN STREET IS 12" PMC, CONSTRUCTED IN 1988. THE SERVICES EXTENDING FROM THE MAIN ARE WIRRED CLAY (MC) PME AND NEED TO BE REPLACED. THE VC PMPE BEGINS APPROXIMATELY TWO 10 FOUR FEET FROM THE MAIN. TIES ARE PROVIDED IN THE PROJECT MAINLAL APPENDIX.

6. SERVICE CONVECTIONS TO THE SEMER, DETE FOUNDATION DRAINS OR ROOF LEADERS SHALL SANTARY SEMER, THE CONTRACTOR IS TO WOTH POTENTIAL STORM DRAINS OR SUBSURFACE DRA

ERMINED TO BE YARD DRAINS, NOT BE CONNECTED TO THE THE ENGINEER MANEDIATELY OF

1. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD, EXCEPT DURING THE CHANGEOVER OF A CUSTOMER'S SERVICE, A TEMPORARY WATER SYSTEM IS REQUIRED, REFER TO PROJECT MANUAL SPECIFICATION SECTION D1515. PAY ITEM 5F.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL NEW WATER LINES, THE INTENT IS TO INSTALL THE NEW WATER LINE IN PARALLEL WITH THE EXIST MAINS, LOCATION IS APPROXIMENT. EXIST MAINS MAY BE ADANDONED IN PLACE IF THEY DO NOT POSE AN INTERFERENCE TO OTHER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF EXIST MAINS THAT ARE REMOVED.

STUB

STONE CHANNEL

5. MINIMUM DEPTH OF COVER SHALL BE 5' FROM PROPOSED FINAL GRADES AND MAXIMUM DEPTH OF COVER SHALL BE 6'-6' UNLESS SHOWN OTHERWISE ON THE DRAWNIGS OR WHERE NECESSARY TO AVOID UTILITY CONFICITS. THE NEW MAINS SHALL GENERALLY FOLLOW THE GROUND CONTOUR. ABRUPT CHANGES IN GRADE SHALL BE AVOIDED TO THE EXTENT

7. NEW MAINS SMUL BE DUCTLE IRON CLASS 52 WITH PUSH-ON JOINTS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL FITTINGS SMUL BE DUCTLE IRON MECHANICAL JOINT CLASS 350, UNLESS OTHERWISE REQUIRED FOR JOINT RESTRAINT OR SHOWN ON THE DRAWINGS.

9. TEST PRESSURE FOR THE COMBINED PRESSURE AND LEAVAGE TEST SHALL BE 160 PSI, TEST DURATION SHALL BE 2 HOURS, MINIMUM. 8. ALL BENDS, TEES, REDUCERS, HYDRAMTS, AND PLUCS SHALL BE RESTRAINED JOINT OR OTHER METHOD AS SHOWN ON THE DRAWINGS

10. TRENCHES SHALL NOT BE LEFT OPEN DURBIG MON-WORKING HOURS.
ALL OPEN PIPES SHALL BE SECURED WITH A WATERTIGHT PLUG WHEN THE
PIPE IS TEMPORARILY BACKFILLED AND WHEN PIPE LAYING IS NOT IN

11. WHERE A WATER MAIN PASSES BELOW OR ABONE A SANITARY OR STORM SENER, A FULL LENGTH OF WATER MAIN SMALL BE CENTERED ABONE/BELOW THE SENER. MAINTAIN A MINIMUM SEPARATION DISTANCE OF 18 INCHES.

12. NOT ALL REQUIRED FITTINGS AND BENDS ARE SHOWN, REQUIRED HUMBER, LOCATION, AND SIZE OF FITTINGS SHALL BE DETERMINED BY THE CONTRACTOR.

13. MAIN LINE BUTTERFLY VALVES AND GATE WALVES MAY BE PLACED ETHER SIDE OF HYDRAMT ASSEMBLES BASED ON CONSTRUCTION SEQUENCE OR TO ALLOW ADEQUATE AND THOROUGH MAIN FLUSTMACE PRIOR TO TESTING. PROPOSED CONFIGURATION ASSUMES CONSTRUCTION FROM NEW ROAD TO BAY ROAD, CONSTRUCTION SEQUENCE TO BE REVIEWED WITH THE ENGINEER.

WATER DISTRIBUTION SYSTEM NOTES

2. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER TO DETERMINE THE EXACT LOCATION AND SIZE OF ALL SERVICES PRIOR TO THE INSTALLATION OF WATER MAIN.

3. SERVICE LINES ON EXETER STREET SHALL BE INSTALLED FROM THE PROPERSY LINE, UNLESS DIRECTED OTHERWISE BY PRODESED MAIN TO THE PROPERTY LINE, UNLESS DIRECTED OTHERWISE BY PROPERTY AFTER INSTALLATION. CARE SHALL RESTORE THE HOMEOWIRE'S PROPERTY AFTER INSTALLATION. CARE SHALL BE TAKEN BY CONTRACTOR TO AVOID TREES, LANDSCAPING AND OTHER UTILITIES. WATER SERVICE LINES ON MAIN STREET WHERE SHOWN SHALL BE REPLACED TO THE BUILDING INTERIOR UNLESS APPROVED OTHERWISE. ALL OLD OR IMPAIRED PIPE BENEATH SIDEWALKS IS TO BE REPLACED.

8. NEW HYDRANTS SHALL BE FIELD LOCATED BY THE OWNER, HYDRANT DRAWNS SHALL BE FLUGGED. EXIST HYDRANT ASSOCIABLES SHALL BE REMOVED FROM SERVICE AND DELIVERED TO TOWN AS DRECTED, OR DISPOSED OF BY THE CONTRACTOR. HYDRANT TO BE CUT MAIN SIDE OF GATE VALVE AND HYDRANT LINE TO BE CAPPED IN PLACE.

14, NO VALVES, VALVE BOXES, FITTINGS, PIPE, ETC. SHALL BE RE-USED IN THE WORK. ALL ITEMS NEASURED FOR PAYMENT SHALL BE NEW, UNLESS SPECIFICALLY NOTED.

DRAIN NOTES:

1. CORRUGATED HOPE, SMOOTH INTERIOR MAY BE SUBSTITUTED FOR 12" AND 15" RCP DRAIN PIPE SHOWN ON THE DRAWINGS AS CONTRACTOR'S OPTION (ITEMS 603.69012 & 603.69015).

PLAN REFERENCE

PLAN ENTITLED "EXETER ROAD SEWER RELOCATION, NEW HAMPSHIRE" BY UNDERWOOD ENGINEERS, INC. DATED JUNE 1997.

3. MAN STREET RECONSTRUCTION PHASE I NHIDOT PROJECT 13107 STP-TE-X-000S(338) PREPARED BY UNDERWOOD ENGINEERS, INC. OCTOBER 2003 SURVEYED BY BEDFORD DESIGN CONSULTANTS, LONDONDERRY, NH. OCTOBER, 2002.

2. COORDINATE EXACT LOCATIONS FOR TRAFFIC OF TRAFFIC, (603)271-2791. THE CONTRACTOR BUREAU OF TRAFFIC SUBRAMANIAN SHARMA AT I ADVANCE OF FINAL PAREMENT MARKING OPERATIC CONTRACTORS LAYOUT. 2. THE SEMER SERVICES ON THE WEST SIDE OF CONSTRUCTED BENEATH THE EXISTING 48" BRICK STORM SEWER RESULTING FROM CONTRACTOR'S OF THE CONTRACTOR AT NO ADDITIONAL COST TO NHDOT STATE PROJECT 1. ALL SEWER SERVICES SHALL BE 6" DIMMETER, UNLESS NOTED OFHERWISE. THE SERVICE LOCATIONS SHOWN ARE APPROXIMATE BESCH ON REVIEW OF TOWN DATA AND VIDEO RECORDS. THE CONTRACTOR SHALL YERRY EXISTING SEWER SERVICE LOCATION PRIOR TO INSTALLATION OF WYE FOR EACH HOME. EXCHANTE TEST PITS AT LOCATIONS OFMECTICE BY THE ENGINEER, ITEM 17. WHERE NECESSARY TO LOCATE SERVICES AT PROPERTY LINES. 1. ALL EXIST SIGNS IN THE WICHTIY OF THE PROPOSED SIDEWALK SHALL BE RESET 7. ABOVE ELEVATION ON THE HEIGHT OF THE SIDEWALK IC SIGNS WITH NHDOT BUREAU OR SHALL CONTACT NHDOT NT LEAST ONE WEEK IN VATIONS TO REVIEW THE OF EXETER STREET ARE TO BE CK STORM SEWER. DAMAGE TO 5 OPERATIONS, SHALL BE REPARED TO THE OWNER. #13499-NOTES:

SEWER NOTES:

ISSUE FOR Drawn/Chk_HOB Δ Underwood LEGEND & GENERAL NOTES Designed___PDM Checked____ APPROVAL Δ Engineers, Inc. ١₹ 2/14, CONS Approved. Δ EXETER STREET (NH ROUTE 108) 3/19/07 N Scok No. By PDM Δ MAIN STREET RECONSTRUCTION-PHASE Project No. 1076 Drg. ID 1076LEGEND 25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733 Δ TOWN OF NEWMARKET, NH date Ву Scale AS SHOWN NO. REVISIONS APP'D

EAGASATE TEST PIT TO DETERMINE LOCATION, INTEN 17. **EXIGNAC** SEWER

 $\langle v \rangle$ \bigcirc CONSTRUCT 6" PVC SANITARY SERVICE TO PROPERTY LINE UNLESS OTHERWISE SHOWN, PROVIDE CLEANOUT AND TRANSITION COUPLING TO COMPLETE THE CONNECTION TO EXIST SERVICES. (DETAIL 6), ITEM 2A

EXEMANTE TEST PST, TIEM 17 PRIOR TO INSTALLATION, CONST. B. "PAC. X 30" @ \$=0.0050 FROM \$MHJS TO \$MHJS. THE INVERT IN ELEVATION WILL BE DETERMINED BY TEST PST. THE SERVER LOCATION IS SUBJECT TO APPROVAL BY THE ENGINEER PENDING REVIEW OF THE INFORMATION OBTAINED. REMOVE SMH 170 & DEPTH 4 FEET BELOW SURFACE. PLUG SEWERS TO BE ABANDONED WITH NON SHRINK GROUT AND BACK FILL WITH COMPACTED GRAVEL, ITEM 3B.

CONSTRUCT 8" PVC SEWER, MATCH SLOPE AND INVERT, FIRM 1A. CONNECT #10 EXISTING 6" VC WITH 8"X6" REPAIR COUPLING; SUBSIDIARY. ENCAMPRE TEST PIT, FIEM 17. PRIOR TO INSTALLATION OF SEWICE, THE IMPERET ELEVATION AND LOCATION OF SMAILE IS SUBJECT TO ENCORPEES APPROVAL PENDING REVIEW OF THE INFORMATION OBTAINED.

CONSTRUCT 4" DIA. SMH (RIM=14.75± INV BY= 10.75 IMV DUT=6.00 CONSTRUCT 8" PVC X 30' @ S=0.010, PIPE TO BE INSTALLED BENEATH EXISTING 48" BRICK STORM SEWER. (DIROP SMH) & STA 24+94 LT

(a)

(3)

(a)

5

(<u>4</u>)

6 (3) THE CROSS COUNTRY SEWER BETWEEN SMM XC#3 AND SMM#1
MAIL BE CONSTRUCTED UNDER EXISTING CONCRETE REFAINING
WALLS AS SCHOMM ON PLAN. THE EXACT ELEVATION AND
COMDITION OF WILL FROTTINGS IS NOT HANDWIN AND CONTRACTION
SHOULD CONSIDER THIS DURING PREPARATION OF BID FOR
TEAM YC. CONCRETE WALLS ARE TO BE RESTORED AND/OR
REPARED TO OWNERY SENER. THE WORNE S SUBSIDIARY TO
OF CROSS COUNTRY SENER AND WILL NOT BE MEASURED FOR
CROSS COUNTRY SENER AND WILL NOT BE MEASURED FOR

REPLACE VC SEMER LAISFALS ON MAIN STREET WITH 6° PVC SEWER I BUILDING FACE. ITEM 2B. REPLACE AND RE-PLUMB PIPE TO BUILDING INTERIOR AS DIRECTED, ITEM 2C. ITEM 2C WILL REQUIRE EVALUATION O PIPE TO BUILDING INTERIOR BY BUILDING INSPECTOR OR TOWN REPRESENTATIVE. ORACKED AND/OR STRUCTURALLY IMPRIRED PIPE IS I BE REMOVED AND REPLACED, ITEM 2C. SEE DETAIL 유 0 ٥,

 \bigcirc SERVICE TO \$170 MAIN STREET ALSO FEEDS \$154 AND \$158 FROM A CHIMNEY CONNECTION AT SEWERMAIN. CONNECTION AT CHIMNEY IS APPROXIMATE ?" DEETE EXCAVATE TEST PITS (ITEM 17) TO DETERMINE SERVICE LOCATIONS AND REPORT DISCREPANCES TO AND/OR CONFLICTS TO ENGINEER BERFORE COMMENCEMENT OF WORK.

REPLACE W SERVICE I BEYOND

(1)

WATER

CONSTRUCT 6, DICL 52 WATER MAIN

CONSTRUCT

16"X12"

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331

 \geqslant CONSTRUCT CONSTRUCT 16"X6" Ω ΉE

2 CONSTRUCT 12 Dici 52 WATER MAIN

ZA 331

CONSTRUCT 12 X6 ₽ П

SEPARATION FROM SEWER MAINTAIN

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3

CONSTRUCT

SA) CONSTRUCT Ö 2 52 WATER

₽

đ, BUTTERFLY GATE VALVE (TYP.)

 \bigcirc \triangleright CONSTRUCT CONSTRUCT œ 12* RESILIANT RESILIANT WEDGE CATE VALVE (TYP.) **WEDGE** 3 WALVE (TYP.)

C85

CONSTRUCT 6" RESILIANT WEDGE GATE VALVE (TYP.)

CONSTRUCT MURLLER SUPER CENTURION 250 A4 23 HYDRANT ASSEMBLIES INCLUDING BRANCH TEE, GATE VALVE, 6° DICK 52 EXTENSION PIPE AND HYDRANT.

BOX AND CORPORATION CONNECTION NICLUDING CURB (ITEMS 9A AND 9B).

≥

 \Rightarrow RELOCATE MT. PLEASANT STREET WATER (4" DICL 52)
TO PROVIDE WHIMUM 10' HORIZONTAL SEPARATION
FROM SEMER LINE.

 \sim CONSTRUCT 2" SERVICE BOX AND CORPORATION CONNECTION INCLUDING (ITEMS 9C AND 9D). CURB

\S\ CONSTRUCT 1-1/2" SERVICE CONNECTION INCLUDING CURB BOX AND CORPORATION (ITEMS 9C AND 9D).

8 X6 REDUCER

 \Rightarrow 12"XB" 12"X10" REDUCER REDUCER

16"X12" REDUCER B"X4" REDUCER

CONST. 12" DI WATER AT LAMPREY RIVER BRIDGE, INCUDING 12" DI PIPE, PIPE SUPPORTS AND INSULATION SYSTEMS. SEE SHEET 51.01 BY H.E. BERGEON ENGINEERS, INC.

CONST. 22 BEND, NOTE FITTINGS ARE SUBSIDIARY TO PIEL INSTALLATION. THRUST RESTRAINT TO BE PROVIDED WITH RESTRAINT JOINT MECHANICAL FITTINGS. (MEGALUG TYPE—RESTRAINT) SEE THRUST RESTRAINT LIMITS, DWG 05.

CONST. 45' BEND. NOTE FITTINGS ARE SUBSIDIARY TO PIPE MISTALLATION. THRUST RESTRAINT TO BE PROMOED WITH RESTRAINT JOINT MECHANICAL TITTINGS.
(MECALUG TYPE—RESTRAINT) SEE THRUST RESTRAINT LIMITS, DWG D5.

EXETER

STREET

(NH

ROUTE

108)

WATER STE

STREET

CB49

RIM (EL=11.90 1.2" INW OUT=8.02 CONST; 12" DRAIN X 16' (CONST; 12" DRAIN X 16' (

(S¥

0

CMH11

5 0.02

SFA 35+35, 485 Ltr

RIM EL=25.58
FIELD CORE FOR 12" RCP 0
INV 0UT=23,70
CONST 12" RCP X 92' (NE)
INV @ 6828=22.49

9

ISSUE FOR

APPROMAL

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2/14, /07 PDI CO.NSTRUCTION

RECORD DEXIMING

Date?

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)RAINAGE:

CORRUGATION HOPE, SMOOTH INTERFOR MAY BE SUBSTITUTED FOR 12" AND 15" ROP DRAWN PIPE SHOWN ON THE BRAWINGS CONTRACTOR'S OFTION (ITEMS 603.69012 &

183 T STA 18+93, 18" APT

(SUM INTO IDENST 18" ROOP)

(YOUR INTO IDESTRAINED, THE

INV OUT=(FIELD DETERMINED, THE

INV OUT=(FIELD D, TEST PIT)

BMH10 S. DIV 224 HOOF 22 GONNECT NEM 39- GA-F FROM GOLLEN

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DIST

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CPE

STA 36+97, 19 LT RIM EL=26 35 INV, IN=23,10 INV 001=23,99 CONST 12 RCP x 3 INV 0 6829=22.20

6

(3)

0

S=0.02

STA 21+05, 17" (IT RIM EL=21.78, ENGRAPE TEST PIT AND FIELD DETERMINE INVERTS, CUT INVERT QUT) AND CONST. NEW 15" FICE % 26" TIO INJUN @ STA 20+80 (IT.

CB2

| STM 27-488, 35 RT | RIM EL= 17.09 | NW 065= 17.40 | NV IN= 11.46 (CONNECT TO E

8HMO

CB32

DRAINAGE: SOUTH MAIN

STREET

CB30A

THIN 27+06, 51' LT RINK EL-27.30
CONET. 12" RGP X 2' (
N/G IN-23.30 (2)
N/C OUT-23.42
CONST 12" RCP X 32'
INV & CRESO-23.10

32' (S)

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STA 2%+57, 10' RT CONST 30' RCP × 24' 0 TO CB∦4, CCNST, 12" (S=0.005 (SE)

 (S) To CB∯3

DMH1

STA 23+25, 11 LI 1

MH2A

RNW EL = 16:0 48 INVERT EL = (MATCH E 30 INVERT IN EL = 10:44 CONST. 30 ROP × 12' C

C85 STA 23+21, 14 RIM EL-15.91 INV OUT-10.80 . 14. RI EL (MATCH EXISTING)

CMH3 STA 25+22, 11' LT

QNOST 6: Dua DOCHOUSE MANHOLE (
CONST 12' RGP x 28' @ S=0.09' TO

CONST 12' RGP x 8' @ S=0.0525 TO STA 25+22, 14' RT RRM 能L=14.78 INV 例(I=10.20 INV 例(I=10.20 CONST. 12" RCP X 4' D.025 TO DMH

DINHIGH STA 25+22, 22' RT

RAW EL=15.00

B" INV (X2 EN.) M=10.50 (
12" ONV OUT=10.30 55

CB7 STA 25+22, 22' LT RIM EL=14.52 INV IN=1060 INV OUT=10.50 CONST 12" RCP X 26' ((S¥S) • S=0.01

10 CB**∮**7∧

STA 24+92, 22' LT
RIM EL=14.77
12" INV OUT=10.66
6" INV IN=11.5 (CONNECT 1 ಠ EXIST. న

CB7A

8 STA 26+47, 14' RT
RIM EL=14.14
INV 0UT=10.20
CONST. 12" RCP X 21' (NE) @ S=SEE CROSS SECTIONS
PIELD CORE 48' BRICK DRAIN AND CONST. PIPE
CONNECTION SYSTEM, PAY AS ITEM 24.

CB9 STA 26+47, 22' LT
RIM EL=13.76
INV OUT=9.90
CONST 12" RCP X 6'
FPELD CORE 48" BRYCH
CONNECTION SYSTEM, I RCP X 6' (SE) © S=SEE CROSS SECTIONS INSERTA : 48" BRICK DRAIN AND CONST. PIPE N SYSTEM, PAY AS ITEM 24.

DMH5 C811 STA 28+60, 12' LT (REMOVE EXIST STRUCTURE, (SUBSIDIARY) AND REPLACE CBIJ11 CONNECT EXIST 4" VC DRAIN TO CBI1) KATCH *

STA 28+14, 7' RT (6' DIA)
CUT INTO EXIST 48" RCP, SUBSIDIARY, INV OUT TO
CA" RW IN (NW)=7.20
CONST 24" RCP X 20' (NW) @ S=0.01 TO CB#10
INV AT CB#10=7.40
CONST 48"X24" TO DIAH#4, INVERT TO MATCH 75 (NVER)

DMH6 STA 28+12, 23" LT (4" DIA)
EXCAVATE TEST PT. ITEM 17. TO COI
ELEVATION ELEVATIONS. OUTLET
PIPE MAY BE RAISED IF CONDITIONS TO CONFIRM EXIST

DMH7 STA 29+70, 4' LT CONST. 12" RCP X 70' (N) @ S=0.018 CONST. 12" RCP X 20' (N) @ S=0.005 ಶ ಶ CB/12

Q828

B STA 35+80, 42' LT
RM EL=25.70
RV RH=22.49
RV QUT=21.44
CONST 15" RCP X 14' (NE) © \$=0.01
RV © C827=21.30

2 See

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¥89

EXIST 24" CMP)

STA 23+23, 5' RT CONST. 12" RCP X 4' 0 S 0.025 TO CB/5

€847

STA 04%, 13' LT RIM EL= INV OUT=27.1 (REMOVE, EXIST STRUCTURE, SUBSIDIARY)

C 5.0.005

CB12 STA 29+75, 28' LT RIM EL=86.30 INV UUT=22.90

CB14 (SE)

C834

STA 32+25, 28' LT RMA EL=26,75 NV 0991=21,00 30NST 13" acc x 40' ((SE) **6** 5. 0.020

CB√19 BANK

CB21 RIV EL= 9NV OUT= CONST 15" RCP X 48 NV 4 CB22= Δę Ŕ

CB∯72 (EXIST) 2 ŠÝA 33+62, 38' LT T) ÑN EL=26.25 ADUST TO 25.80 ŘÍELD ODEC CB ∮72 FOR 12" RCP OUT INV OUT=21: CONST 12" RCP × 20' (NE) ◆ S=0.035 INV ◆ CB22=21.40

C823 CB22 TIA 33+86, 33' LT PIM EL=24.67 RNY OUT=21.31 CONST 15' RCP X 44' (RNY © CB21=21.00 Ŕ S=0.007

CB45

\$ (NE)

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5=0.020

C825 STA 33+87, 44* LT RIM EL=26.60 INV OUT=20.50 CONST 12" RCP X 1 INV © C822=20.40 õ Ī

08308

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STA 34+80, 33° LT ROM EL=24.15 RNV IN=21.10 INV OUT=21.00 CONST 12" RCP X 4 INV O C824=20.56 × 44 æ •

C827

TSIA 35+67, 25' LT RIM EL=24.8 RIV UN=21.30 RIV QUI=21.22 CONST 15" RCP X 4-RIV © G826=21.00

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STA 47+42, 45' LT

RM EL=27.0

3" INV IN=24.4

12" INV OUT=23.88

CONST 12" DRAIN X 36' TO CB30A

9 S=0.01, INV AT CB30A=23.50

DRAINAGE: STREET NE NE ROUTE

108)

2 | EXCAVATE TEST PIT (ITEM 17) PRICK ಠ

CB35

STA 38+25, 33' LT
RIM EL=28.60
@MRST 13' RCP X 8' SH
THO EXIST. 10" VC & SEA
SHESIDARY
NV N=25,30
NV PUT=22.04
LTV = 6534-21.80

SEAL WITH GROUT.

STA 31+34, 18' LT RIM EL=28.12 INV OUT: 22.25 CONST 12" RCP x 35' (INV @ CB15~21.20 CE0.030

CB20 STA 32+83, 22* LT

STA 32+83, 28* LT

STA 32+83, 22* LT

STA 32+83, 22

СВ37 STA 39+75, 28' LT (CONST. ● LOW POINT)

PMW R1=21.90

LW M=28.50

CMMST, 15" RCP X 3' STUB (NW), CONNECT TO EXIST, 8" VCP & SEAL WITH BRICK & MORTHER, SUBSIDARY, LW TOT=28.50

CONST 12" RCP X 36' (5) ● S=0.010

INV ● CB36=28.14

CB39 (NW) ● S=0.060

STA 45+78, 15 LT (CONST. DROP INLET) RIM EL=42.50 INV OUT=40.40 CONST 8" PVC X 5 I INV O EQIST CB = 44 INCEL)

S=0.02

STA 40+80, 18' LT
RMM EL=38.18
INV QUI=34.56
CONST 12" RCP X 8' STUB (
CONST 12" RCP X 8' STUB (
CONY STUB (IN)=34.66

STA 38 = 4 = 23 + 4 T 15 NV IN = 23.08 6" INV IN (N) = 23.08 CONST. 6" DI DRAIN X 38" (PAY AS DOWNECT "16" EXIST. CI PIPE EXIST. 8E GRANER BLIBE #84. 18" A"7 CUT-2", 1.53 CONST. 16" RGF X 33" (S) @ S=0.010 INV © CB33 = 21.30

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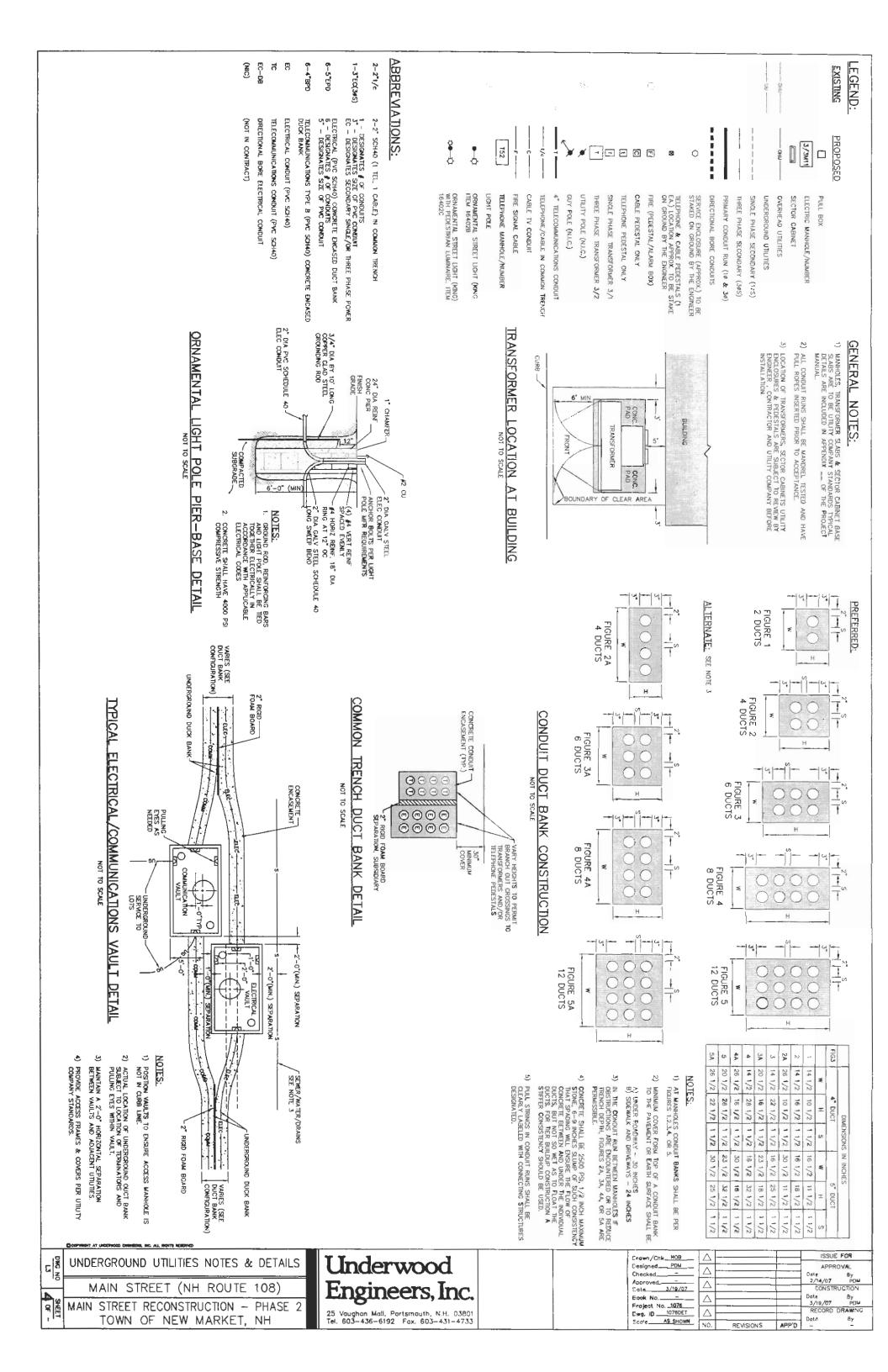
9 S=0.010

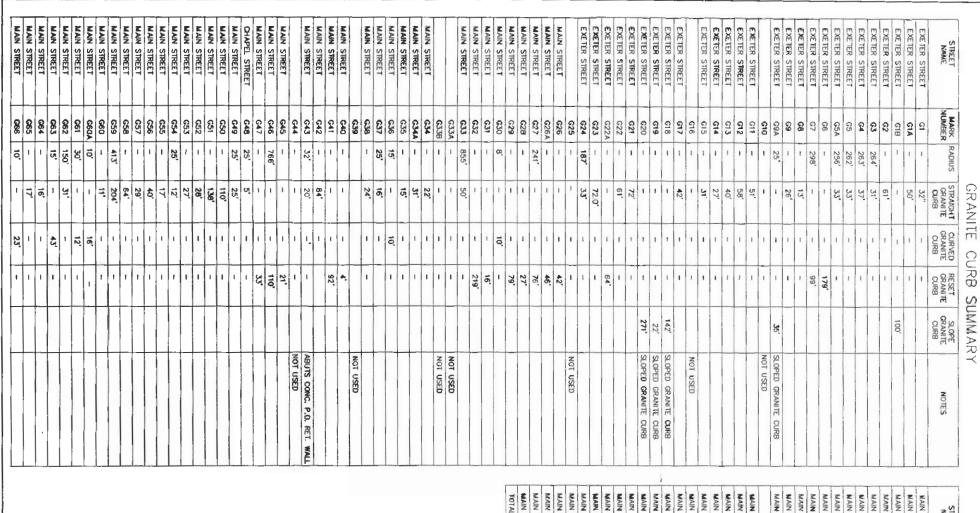
THE STANDARD From / CHR HOSE Δ (Checker - \triangle MPROVED_ Δ 3/19/07 Elogit: No_ \triangle F'roject No. 1076 Cwg, ID_ 1076LEGEND lΔ Scale AS SHOWN

NO.

Underwood Engineers, Inc. 25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733

KEY NOTES EXETER STREET (NH ROUTE 108) MAIN STREET RECONSTRUCTION-PHASE TOWN OF NEWMARKET, NH





TOTALS	MAIN STREET	WAIN STREET	MAIN STREET		MAIN STREET	NAIN STREET	MAIN STREET	MAIN STREET	MAIN STREET	MAIN STREET	NAIN STREET	MAIN STREET	NAME																						
	693	692	691	090	689	G88	G87	G86	685	G84A	G84	683	G82	G81	G80	679	G78C	6788	G78A	G78	677	G 76	675	674C	G74B	G74A	674	673	672	671	G70	669	668	66.3	NUMBER
	1	520'	1	1	10	1	10'	1	10'	10.	1	1	10.	487	10.	1	1	10.	1	1	1	1	1	1	10'	1	380	1	380	1	15	t	30'	1	-
2410	249	40	24"	1	1	10.	1	29"	1	1	14,	32'	1	25'	1	48'	1	1	1	ı	1	1	1	1	1	1	1	1	1	L	1	A A.	18'	68'	CURB
206	1	ı	ı	1	10'	1	10,	1	10'	10'	1	1	13'	1	13"	1	1	æ	1	1	1	1	1	1	00	1	1	1	1	1	10*	1	1	1	CURB
1559	1	•	1	130'	1	1	1	1	1	1	1	•	1	1	1	•	16*	1	17	61	1	19*	8	15.	1	17	54"	ທູ	58'	52"	ı	1	1	1	CRANITE
590																																			CURB
																					NOT USED														NOTES

	1943	200	576.2			TOTAL
	J	105	1	5	Sta 44+15 = 45+80	MAIN STREET
	J	1	16.9	LI	Sto 43+62 - 43+80	MAIN STREET
	J	1	20.4	5	Sta 43+06 = 43+40	MAIN STREET
		1	27.8	CT	Sto 42+35 = 42+83	MAIN STREET
	1	J	64.6	CT.	Sto 41+05 - 42+11	MAIN STREET
	112	1	1	2	Sto 39+87 - 40+84	MAIN STREET
	100	50	1	5	Sto 38+42 = 39+68	MAIN STREET
	380	J	1	为一	Sta 39+68 - 45+70	MAIN STREET
	200	30	1	17	Sta 37+32 = 38+22	MAIN STREET
	400	80	1	27	Sta 35+45 = 39+68	MAIN STREET
	250	40	1	LT	Sta 35+59 = 37+08	MAIN STREET
	78	,t	1	RI	Sta 34+29 = 35+00	MAIN STREET
	22.	1	ı	RT	Sta 33+83 = 34+11	NAIN STREET
	113	25		נו	Sta 33+60 = 35+29	MAIN STREET
	36	J	1	多	Sto 32+83 = 33+35	WATER STREET
		90	1	F.T	Sta 32+43 = 33+32	MAIN STREET
		70	P	=	Sta 31+30 - 32+22	MAIN STREET
	250		1	N.T	Sta 30+02 - 32+50	MAIN STREET
		90	1	13	Stg 29+93 - 30+98	MAIN STREET
		120	1	707	Stg 0+33 - 1+96	SOUTH MAIN ST
			87.3	RT.	Sta 27+98 - 29+71	EXETER STREET
			40.1	27	Sto 26+99 - 27+75	EXETER STREET
			23.8	RT	Sto 26+ 29 - 26+71	EXETER STREET
			16.8	RT	Sta 25+61 - 25+91	EXETER STREET
			15	RT	Ste 28+21 - 25+48	EXETER STREET
			22	2	Sto 24+70 - 25+09	EXETER STREET
			32	RT	Sta 23+87 - 24+44	EXETER STREET
			28.3	RT	Sta 23+18 - 23+69	EXETER STREET
			37.7	为一	N/A	GERRY AVE
			14.7	R1	Sta 22+36 - 22+62	EXETER STREET
			51 20	龙子	Sto 21+97 - 22+09	EXETER STREET
			18.1	RT	Sto 21+40 - 21+75	EXETER STREET
			19.9	자	Stg 20+84 - 21423	EXETER STREET
			16.8	70.7	Sto 20+35 - 20+68	EXETER STREET
			36.7	RT	Sta 19+49 - 20+16	EXETER STREET
		4	25.1	27	Sto 18+49 - 19+00	EXETER STREET
NOTES	CONCRETE 608,442	BRICK (SY)	CONCRETE (SY) 608.449	KICH ()	LOCATION	NAME
		`	SUMMARY	FEALX	SIDE	

GODPHENT AT UNDERWOOD ENGNEETS, INC. ALL MOTTS RESERVED				——————————————————————————————————————		
CURB & SIDEWAL	K SCHEDULE Unc	derwood	Drc =n / Chk H08 Chesigned PCM'	Δ	Co	
MAIN STREET (NH	ROUTE 108) Eng	ineers, Inc.	Clate \$/19/07	Δ		GCNSTRUCTION By
MAIN STREET RECONSTI	RUCTION-PHASE 2	n Mall, Portsmouth, N.H. 03801 36-6192 Fox. 603-431-4733	F'rojest Mo. <u>1698</u> DWIR. ID 1076GEN Sicole AS SHAWN	ANG. REVISIONS	APP'D	3/19/67 PSu RECORD DRAWING bto By